

## SEQUENCE LISTING

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<120> MONOCLONAL ANTIBODIES TO HUMAN  
 IMMUNODEFICIENCY VIRUS AND USES THEREOF

<130> 6755.US.O1

<140> 09/731,126

<141> 2000-12-06

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 28

<212> PRT

<213> Human Immunodeficiency Virus

<400> 1

Cys	Gln	Ala	Ala	Met	Gln	Met	Leu	Lys	Glu	Thr	Ile	Asn	Glu	Glu	Ala
1				5				10						15	
Ala	Glu	Trp	Asp	Arg	Val	His	Pro	Val	His	Ala	Gly				
			20					25							

<210> 2

<211> 28

<212> PRT

<213> Human Immunodeficiency Virus

<400> 2

Cys	Gln	Gly	Ala	Leu	Gln	Val	Leu	Lys	Glu	Val	Ile	Asn	Glu	Glu	Ala
1				5				10						15	
Ala	Asp	Trp	Asp	Arg	Ser	His	Pro	Pro	Val	Val	Gly				
			20					25							

<210> 3

<211> 27

<212> PRT

<213> Human Immunodeficiency Virus

<400> 3

Cys	Leu	Asp	Ile	Arg	Gln	Gly	Pro	Lys	Glu	Pro	Phe	Arg	Asp	Tyr	Val
1				5				10						15	
Asp	Arg	Phe	Tyr	Lys	Thr	Leu	Arg	Ala	Glu	Gln					

20

25

&lt;210&gt; 4

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Human Immunodeficiency Virus

&lt;400&gt; 4

Cys	Leu	Asp	Ile	Lys	Gln	Gly	Pro	Lys	Glu	Pro	Pro	Arg	Asp	Tyr	Val
1				5					10					15	

Asp	Arg	Phe	Tyr	Lys	Thr	Leu	Arg	Ala	Glu	Gln
			20				25			

&lt;210&gt; 5

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Human Immunodeficiency Virus

&lt;400&gt; 5

Cys	Lys	Thr	Ile	Leu	Lys	Ala	Leu	Gly	Pro	Ala	Ala	Thr	Leu	Glu	Glu
1				5					10					15	

Met	Met	Thr	Ala
			20

&lt;210&gt; 6

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Human Immunodeficiency Virus

&lt;400&gt; 6

Cys	Lys	Gln	Ile	Leu	Lys	Ala	Leu	Gly	Pro	Gly	Ala	Thr	Leu	Glu	Glu
1				5					10					15	

Met	Met	Val	Ala
			20

&lt;210&gt; 7

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Human Immunodeficiency Virus

&lt;400&gt; 7

Pro	Val	Val	Pro	Asn	Ala	Gln	Gly	Gln	Met	Ile	His	Gln	Ala	Leu	Ser
1				5					10					15	

Pro	Arg	Thr	Leu	Asn	Ala	Trp	Val	Lys	Ala	Val	Glu	Glu	Lys	Ala	Phe
			20					25					30		

Asn	Pro	Glu	Ile	Ile	Pro	Met	Phe	Met	Ala	Leu	Ser	Glu	Gly	Ala	Ile
		35					40					45			

Pro	Tyr	Asp	Ile	Asn	Ile	Met	Leu	Asn	Ala	Ile	Gly	Gly	His	Gln	Gly
	50					55					60				

Ala	Leu	Gln	Val	Leu	Lys	Glu	Val	Ile	Asn	Glu	Glu	Ala	Ala	Asp	Trp
65					70					75				80	

Asp	Arg	Ser	His	Pro	Pro	Val	Val	Gly	Pro	Leu	Pro	Pro	Gly	Gln	Ile
				85					90					95	

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Arg Glu Pro Thr Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Gln Gln
      100                      105                      110
Glu Gln Val His Trp Ile Thr Arg Ala Asn His Pro Val Pro Val Gly
      115                      120                      125
Asp Ile Tyr Arg Lys Trp Ile Val Leu Gly Leu Asn Lys Met Val Lys
      130                      135                      140
Met Tyr Ser Pro Val Ser Ile Leu Asp Ile Lys Gln Gly Pro Lys Glu
      145                      150                      155                      160
Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu
      165                      170                      175
Gln Ala Ile Gln Asp Val Lys Asn Trp Met Thr Glu Thr Leu Leu Val
      180                      185                      190
Gln Asn Ala Asn Pro Asp Cys Lys Gln Ile Leu Lys Ala Leu Gly Pro
      195                      200                      205
Gly Ala Thr Leu Glu Glu Met Met Val Ala Cys Gln Gly Val Gly Gly
      210                      215                      220
Pro Thr His Lys Ala Lys Leu Leu
      225                      230

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&lt;210&gt; 8

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Human Immunodeficiency Virus

&lt;400&gt; 8

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Pro Ile Val Gln Asn Ile Gln Gly Gln Met Val His Gln Ala Ile Ser
  1          5          10
Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu Lys Ala Phe
      20          25          30
Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu Gly Ala Thr
      35          40          45
Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln Ala
      50          55          60
Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu Trp
      65          70          75          80
Asp Arg Val His Pro Val His Ala Gly Pro Ile Ala Pro Gly Gln Met
      85          90          95
Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Leu Gln
      100          105          110
Glu Gln Ile Gly Trp Met Thr Asn Asn Pro Pro Ile Pro Val Gly Glu
      115          120          125
Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile Val Arg Met
      130          135          140
Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro Lys Glu Pro
      145          150          155          160
Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu Gln
      165          170          175
Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu Leu Val Gln
      180          185          190
Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu Gly Pro Ala
      195          200          205
Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val Gly Gly Pro
      210          215          220
Gly His Lys Ala Arg Val Leu
      225          230

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<210> 9  
 <211> 229  
 <212> PRT  
 <213> Human Immunodeficiency Virus

<400> 9  
 Val Gln Gln Ala Gly Gly Asn Tyr Ile His Val Pro Leu Ser Pro Arg  
 1 5 10 15  
 Thr Leu Asn Ala Trp Val Lys Leu Val Glu Glu Lys Lys Phe Gly Ala  
 20 25 30  
 Glu Val Val Pro Gly Phe Gln Ala Leu Ser Glu Gly Cys Thr Pro Tyr  
 35 40 45  
 Asp Ile Asn Gln Met Leu Asn Cys Val Gly Asp His Gln Ala Ala Met  
 50 55 60  
 Gln Ile Ile Arg Glu Ile Ile Asn Glu Glu Ala Ala Asp Trp Asp Ala  
 65 70 75 80  
 Gln His Pro Ile Pro Gly Pro Leu Pro Ala Gly Gln Leu Arg Asp Pro  
 85 90 95  
 Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Val Asp Glu Gln Ile  
 100 105 110  
 Gln Trp Met Tyr Arg Gln Pro Asn Pro Val Pro Val Gly Asn Ile Tyr  
 115 120 125  
 Arg Arg Trp Ile Gln Ile Gly Leu Gln Lys Cys Val Arg Met Tyr Asn  
 130 135 140  
 Pro Thr Asn Ile Leu Asp Val Lys Gln Gly Pro Lys Glu Ser Phe Gln  
 145 150 155 160  
 Ser Tyr Val Asp Arg Phe Tyr Lys Ser Leu Arg Ala Glu Gln Thr Asp  
 165 170 175  
 Pro Ala Val Lys Asn Trp Met Thr Gln Thr Leu Leu Ile Gln Asn Ala  
 180 185 190  
 Asn Pro Asp Cys Lys Leu Val Leu Lys Gly Leu Gly Met Asn Pro Thr  
 195 200 205  
 Leu Glu Glu Met Leu Thr Ala Cys Gln Gly Val Gly Gly Pro Ser Gln  
 210 215 220  
 Lys Ala Arg Leu Met  
 225